

## 2006 Engineering Conference Breakout Sessions

### 15. 3P – Primer, Financial Models, Teaming Arrangements

**Track:** Design

**Presenters:** Mr. Grant Holland from Wilbur Smith Associates

**Synopsis:** Session One: 3P Primer

This session will discuss the various forms of 3P delivery methods that can be used. Discussions will include the 3P procurement process, public sector issues, and private sector issues.

Session Two: 3P Financial Models

This session will compare traditional infrastructure financings using tax-exempt municipal debt with concession financing models. The session will discuss the differences in the risk-return calculations between bondholders and equity holders and then apply those differences to a hypothetical toll road project.

Session Three: 3P Teaming Arrangements

This session will look at typical teaming arrangements for 3Ps involving both Brownfield and Greenfield projects. Emphasis will be placed on how the different project types dictate different team structures and the relative importance of different team members.

**Time Required: 90 minutes**

### 34. ADA Compliance – Truncated Domes and Funding Sources

**Track:** Traffic

**Presenters:** Wes Starkenburg, Peter Jager, Larry Montoya

**Synopsis:** 1. Public Rights of Way Guideline - Second Revision

2. Status of Ped Ramp Program

3. Process for Ped ramp evaluation

4. Standard Drawing and Specification Update

5. Lessons Learned

**Time Required: 50 minutes**

### 44. Funding an accelerated 10 year program of UDOT Programs

**Track:** Sytem Planning/Programming

**Presenters:**

**Synopsis:** The session will involve a panel of senior policy staff representatives from UDOT, UTA, WFRC and MAG who will highlight the issues involved in accelerating the transportation program. Linda Bohlinger, HNTB Corporation would moderate the panel. Over the next ten years, which highway and transit projects are feasible, and what are the most promising funding sources? How does that vision change with the results of the November 2006 ballot measure for transportation funding (potential sales tax or property tax options)? What are the opportunities and obstacles for accelerating a program of projects? The program would highlight those projects proposed by the Utah Department of Transportation (UDOT), the Utah Transit Authority (UTA), the Wasatch Front Regional Council (WFRC), the Mountain land Association of Governments (MAG) and other planning agencies.

**Time Required: 50 minutes**

### 51. Material Supply in Utah

**Track:** Materials

**Presenters:** Ben Blankenship, Todd Laker, Tim Biel

**Synopsis:** Where is our cement, aggregate and binder coming from in the future.

**Time Required: 50 minutes**

### **53. Trends and changes in construction projects and how to manage them**

**Track:** Construction

**Presenters:** Chad Hutchinson of Navigant Consulting

**Synopsis:** Chad, based on his experience as an estimator and consultant, will discuss the problems, which can come up on construction projects which impact schedule, and budget and how to address those issues and complete the project successfully.

**Time Required: 90 minutes**

### **70. Red Flag Analysis and Estimating**

**Track:** Project Management

**Presenters:** Stan Burns, Richard Miller, Jason Henrie

**Synopsis:** Accurate engineer's estimates are now a performance measure for consultant and in-house designers. UDOT is currently measuring and posting on the Internet the cost estimating performance of consultants and in-house design squads based on their project's low bid. To assist designers in better anticipating project costs, UDOT has introduced the Red Flag Analysis in PDBS. This session will provide a brief overview of the Red Flag Analysis and will also cover the performance measure tabulation, cost estimating resources on the UDOT website, and a review of how the Red Flag Analysis was applied to projects currently out to bid. The session will also address the recent cost increases experienced in the heavy construction industry and will provide suggestions on preparing engineer's estimates in the current bidding environment

**Time Required: 90 minutes (Internet Access)**

### **75. I-15 Hot Lanes Project**

**Track:** Planning/Programming

**Presenters:** Caroline Brabrook, Jerry Mugg, Dan Baker, Greg LeFrois, Jack Finn

**Synopsis:** This presentation would highlight the past, present and future of the I-15 HOT Lanes Project. This may be presented by both a member of the UDOT HOT Lanes Steering Committee and an HNTB toll expert or by HNTB alone. The presentation will provide an overview of the toll feasibility study, the pre-launch, the initial sticker program (launching in September) and the road to full electronic tolling.

The Feasibility Study: This section focuses on the initial efforts required to move this project forward, HOV studies, development of the system concepts, corridor analysis, and financial analysis.

Pre-Launch Work: This section focuses required corridor work in preparation for the HOT lanes (e.g., striping, signing), as well as the legislative and enforcement coordination required.

Sticker Program: This section focuses on the work required to launch the initial sticker program including; the website, back office support, billing, stickers, business rules, etc.

Road to Full Electronic Tolling: This section focuses on the future and what full electronic tolling will look like on the road and in the back-office.

**Time Required: 90 minutes**

### **76. University Students Session**

**Track:** Miscellaneous

**Presenters:** Rick Murdock

**Synopsis:** One Room is reserved for Tuesday Morning 8:00am for this meeting/orientation.

**Time Required: 90 minutes**